

Service Manual

4-BAND PORTABLE RADIO
WITH CASSETTE TAPE RECORDER

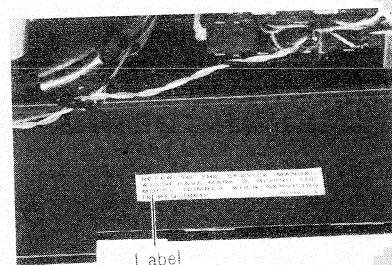
Radio
R-5310B Ⓐ



IMPORTANT

There are two different types in model RF-5310B Ⓐ. Identification of difference can be made by **Label** and **Printed Circuit Board**, so please refer to respective Service Manual as below.

Service Manual (Order No.)	R-5310B Ⓐ (RD7603-1294)	R-5310B (RD7408-1111)
Label Indication	Indicated	Non
Printed Circuit Board No.	RUP721Z	RUP450Z



■ SPECIFICATIONS

Frequency Range:

MW 525~1605kHz
(571~187m)
SW₁ 1.6~4.5MHz (187~66.7m)
SW₂ 4.5~12 MHz (66.7~25m)
SW₃ 12~26.1MHz (25~11.5m)

Intermediate Frequency:
Sensitivity:

AM (MW & SW) 455 kHz
MW 50 μV/m for 50mW Output
SW₁ 20 μV/m for 50mW Output
SW₂ 5 μV for 50mW Output
SW₃ 5 μV for 50mW Output

Power Output:
Power Source:

4.2W Maximum
AC 115/200/220/240V
50-60Hz or 9V (Six "D" Size
Flashlight Batteries) (National
UM-1 or equivalent)

Power Consumption: 10 W (AC Only)
Speaker: 16 cm (6 1/2") PM Dynamic Speaker
Dimensions: 320(Wide)x235(High) x
102(Deep) mm
(12 1/8"x9 1/4"x4")
Weight: 3.6 kg. (7 lb. 15 oz.) without
batteries
Impedance: Speaker.....8Ω
Earphone Jack8Ω
AUX Out Jack.....100kΩ
MIC Jack.....10kΩ

Specifications are subject to change without notice for further improvement.

 **National Panasonic**

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka, Japan

Service Manual

4-BAND PORTABLE RADIO
WITH CASSETTE TAPE RECORDER

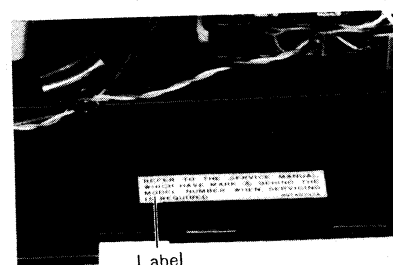
Radio
R-5310B[Ⓐ]



IMPORTANT

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Service Manual (Order No.)	R-5310B [Ⓐ] (RD7603-1294)	R-5310B (RD7408-1111)
Label Indication	Indicated	Non
Printed Circuit Board No.	RUP721Z	RUP450Z



Label

■ SPECIFICATIONS

Frequency Range:	MW 525~1605kHz (571~187m)	Power Consumption:	10 W (AC Only)
	SW ₁ 1.6~4.5MHz (187~66.7m)	Speaker:	16 cm (6 1/2") PM Dynamic Speaker
	SW ₂ 4.5~12 MHz (66.7~25m)	Dimensions:	320(Wide) x 235(High) x 102(Deep) mm (12 3/8" x 9 1/4" x 4")
	SW ₃ 12 ~26.1MHz (25~11.5m)	Weight:	3.6 kg. (7 lb. 15 oz.) without batteries
Intermediate Frequency:	AM (MW & SW) 455 kHz	Impedance:	Speaker.....8Ω Earphone Jack8Ω AUX Out Jack.....100kΩ MIC Jack.....10kΩ
Sensitivity:	MW 50μV/m for 50mW Output SW ₁ 20μV/m for 50mW Output SW ₂ 5μV for 50mW Output SW ₃ 5μV for 50mW Output		
Power Output:	4.2W Maximum		
Power Source:	AC 115/200/220/240V 50-60Hz or 9V (Six "D" Size Flashlight Batteries) (National UM-1 or equivalent)		

Specifications are subject to change without notice for further improvement.



National Panasonic

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■ TO REMOVE CHASSIS

1. Remove six (6) control knobs from cabinet.
2. Remove battery cover.
3. Remove four (4) cover screws, nos. 1~4, as illustrated in fig. 1.
4. Remove cabinet cover.
5. Pull out socket of lead wires to cabinet cover.
6. Remove eight (8) red chassis screws, nos. 1~8, as illustrated in fig. 2.
7. Push the eject button.
8. Remove triple indicator.
9. Pull out microphone.
10. To remove chassis completely, unsolder lead wires to speaker terminal.
11. To reassemble, reverse the above procedure.

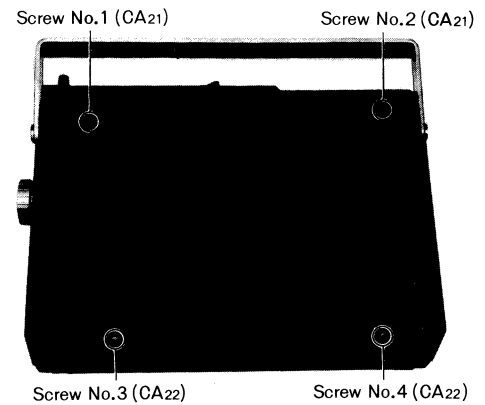


Fig. 1

■ TO REMOVE TAPE DECK

1. Remove chassis from cabinet. (Refer to chassis removal instruction.)
2. Remove three (3) PC Board and tape deck screws, nos. 3, 6 & 7, as illustrated in fig. 3.
3. Remove PC Board from tape deck.
4. To remove tape deck completely, unsolder lead wires, as illustrated in fig. 4.
5. To reassemble, reverse the above procedure.

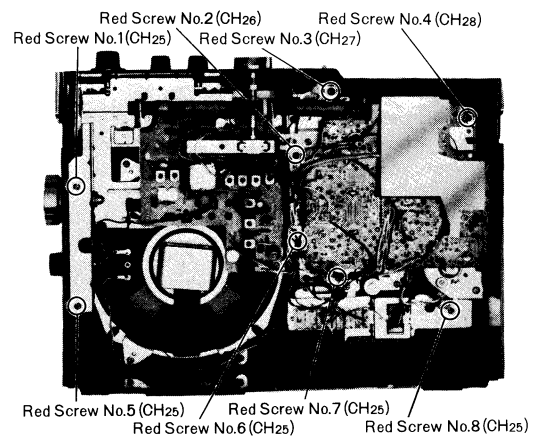


Fig. 2

■ TO REMOVE PC BOARD (RF Circuit)

1. Remove chassis from cabinet.
2. Remove two (2) dial drum and PC Board screws, nos. 1 & 2, as illustrated in fig. 5.
3. Remove four (4) PC Board screws, nos. 1, 2, 4 & 5, as illustrated in fig. 3.
4. Remove PC Board from chassis.
5. To reassemble, reverse the above procedure and read the following notes.

Notes:

1. Turn tuning shaft fully clockwise.
2. Turn tuning capacitor shaft fully clockwise.

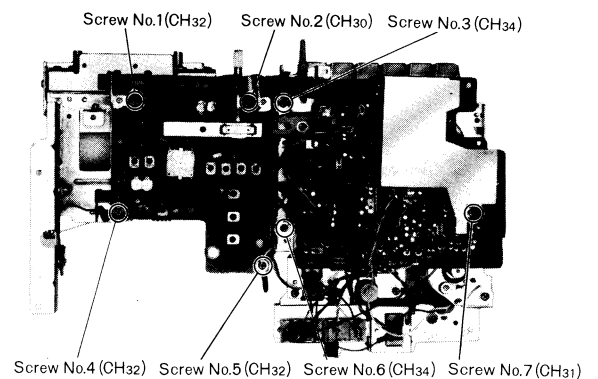


Fig. 3

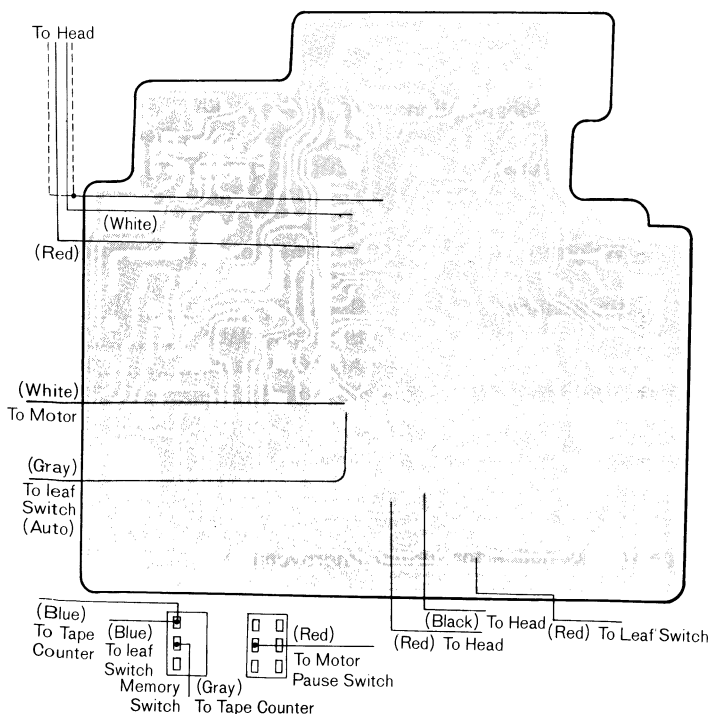


Fig. 4

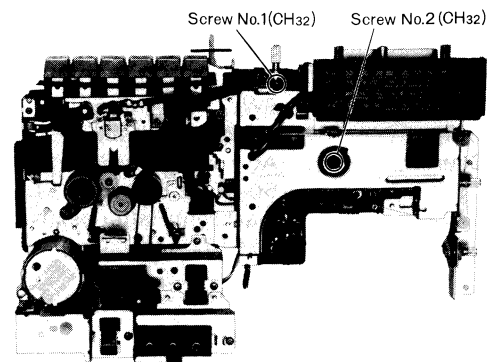


Fig. 5

■ TO REMOVE CHASSIS

1. Remove six (6) control knobs from cabinet.
2. Remove battery cover.
3. Remove four (4) cover screws, nos. 1~4, as illustrated in fig. 1.
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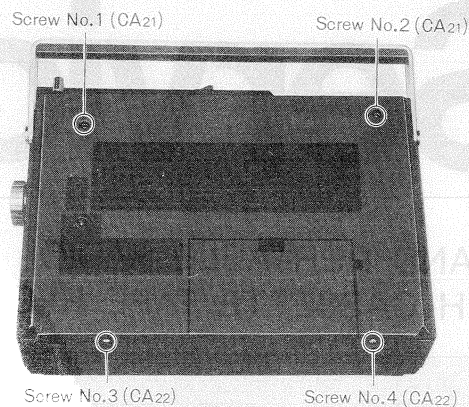


Fig. 1

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2. Remove three (3) PC Board and tape deck screws, nos. 3, 6 & 7, as illustrated in fig. 3.
3. Remove PC Board from tape deck.
4. To remove tape deck completely, unsolder lead wires, as illustrated in fig. 4.
5. To reassemble, reverse the above procedure.

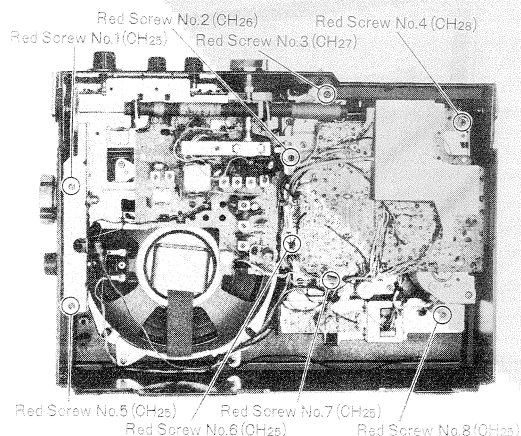


Fig. 2

■ TO REMOVE PC BOARD (RF Circuit)

1. Remove chassis from cabinet.
2. Remove two (2) dial drum and PC Board screws, nos. 1 & 2, as illustrated in fig. 5.
3. Remove four (4) PC Board screws, nos. 1, 2, 4 & 5, as illustrated in fig. 3.
4. Remove PC Board from chassis.
5. To reassemble, reverse the above procedure and read the following notes.

Notes:

1. Turn tuning shaft fully clockwise.
2. Turn tuning capacitor shaft fully clockwise.

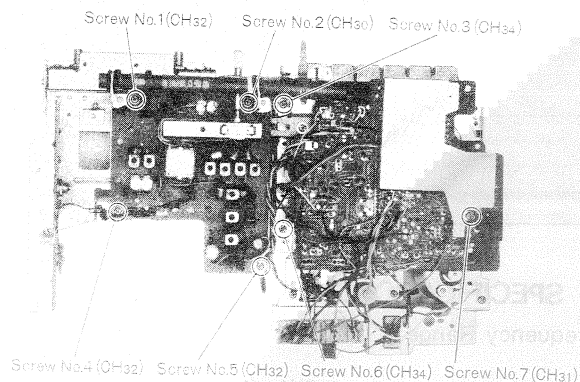


Fig. 3

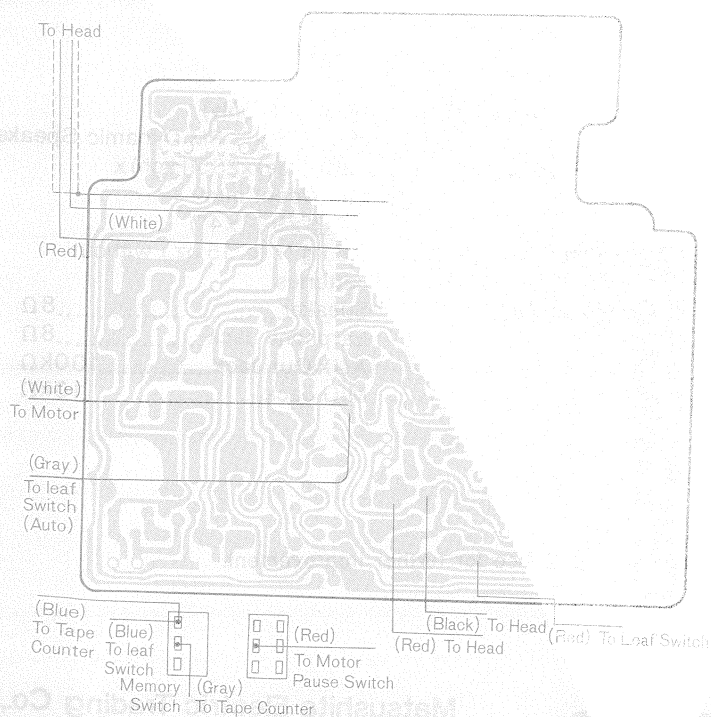


Fig. 4

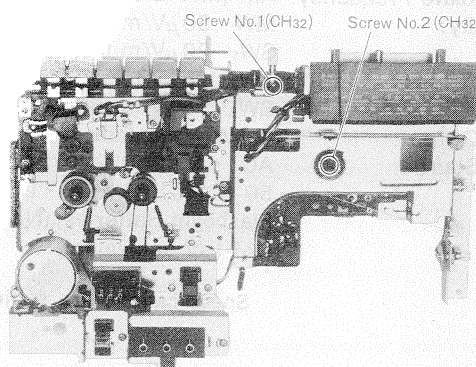


Fig. 5

■ DIAL CORD INSTALLATION GUIDE

1. Remove PC Board (RF Circuit) from chassis.
2. Dial cord length is 80 cm (31 1/2")
3. Set dial drum fully counter-clockwise.
4. Arrows (1~7) indicate correct order and direction of dial cord installation.
5. Cement dial cord ends.

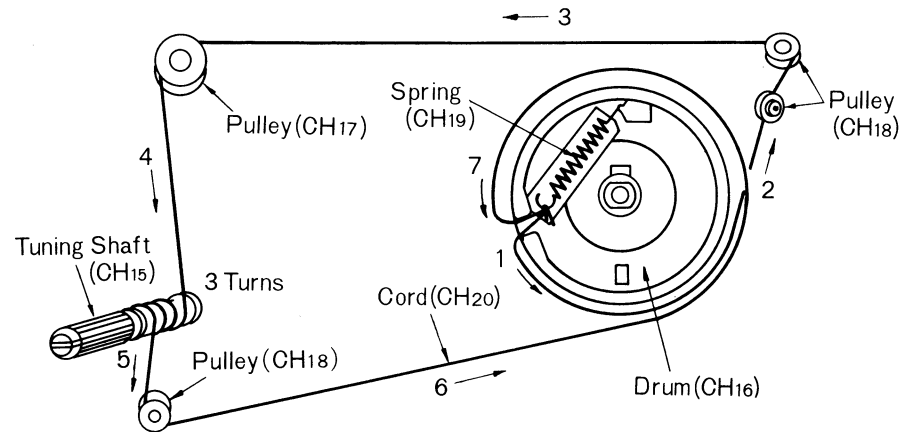


Fig. 6

■ TO MOUNT DIAL POINTER

1. Set tuning capacitor to maximum capacity.
2. Set dial pointer to start point of dial scale.
3. Attach dial cord to dial pointer.

■ ALIGNMENT POINTS

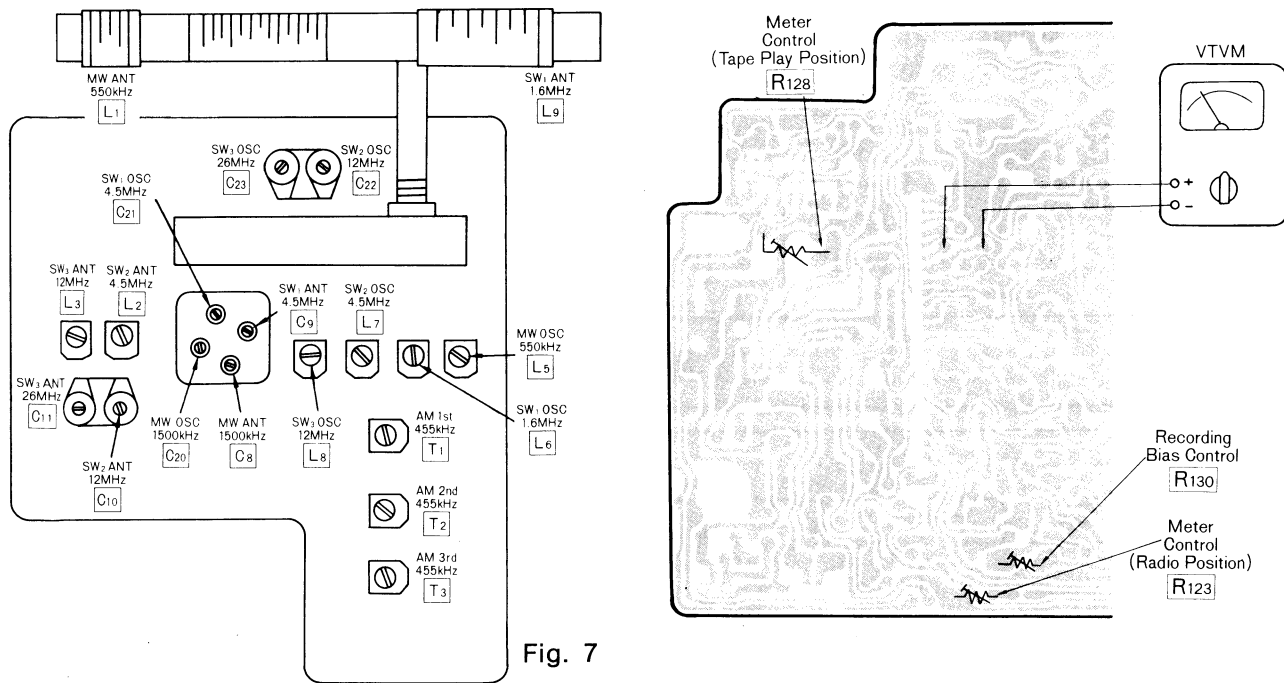


Fig. 7

■ BATTERY/TUNING/RECORDING LEVEL METER ADJUSTMENT

- 1-1. RADIO RECEIVER SETTING

 - Set radio-sleep-tape selector switch to RADIO ON.
 - Set volume control to minimum.
 - Set power source voltage to 9 volts DC.
- 1-2. REMARKS

 - Adjust R123 so that the pointer of level meter stays as shown in fig. 8.
- 2-1. RADIO RECEIVER SETTING

 - Set radio-sleep-tape selector switch to TAPE.
 - Set volume control to minimum.
 - Set power source voltage to 6.7 volts DC.
- 2-2. REMARKS

 - Adjust R128 so that the pointer of level meter stays as shown in fig. 9.

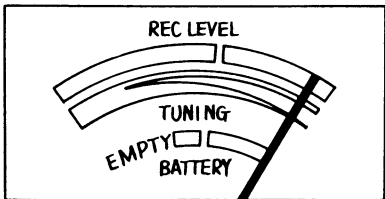


Fig. 8

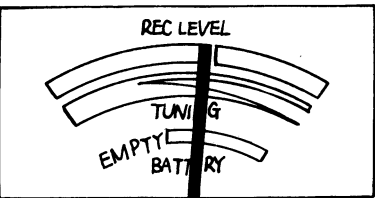


Fig. 9

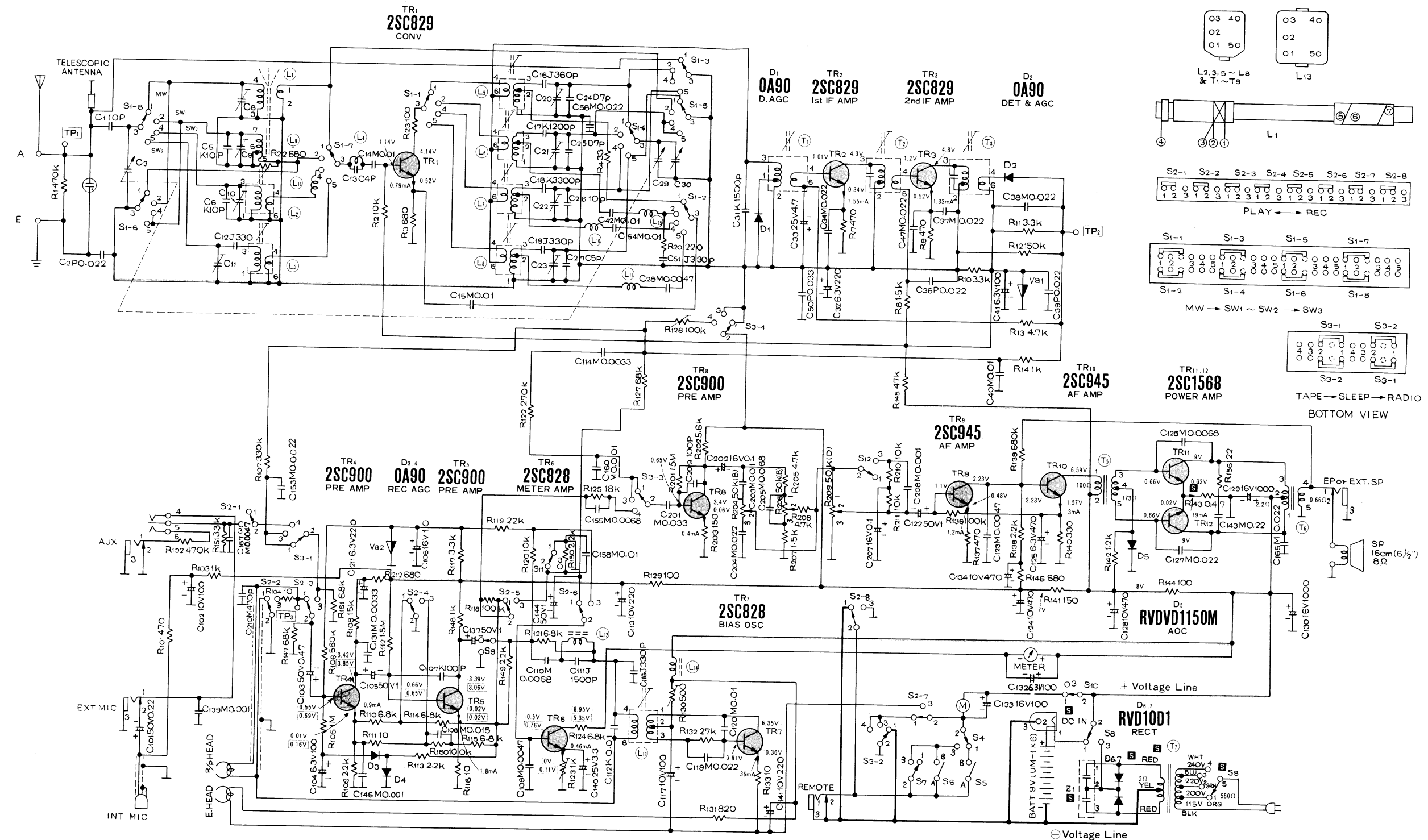
R-5310B ③

■ ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT					
Notes: 1. Set volume control to MAX or MIN (Tape). 2. Set bass & treble control to MAX. 3. Set band selector switch to SW ₁ , SW ₂ or SW ₃ . 4. Set radio-sleep-tape selector switch to RADIO ON or TAPE (Tape). 5. Set loudness switch to OFF. 6. Set power source voltage to 9 volts DC. 7. Set tape selector switch to recording (Tape). 8. Output of signal generator should be no higher than necessary to obtain an output reading. 9. When aligning, remove whip antenna socket.					
SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING [DISTANCE]	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
CONNECTIONS	FREQUENCY				
MW ALIGNMENT					
Fashion loop of several turns of wire and radiate signal into loop of receiver.	455 kHz 30% Mod. with 400 Hz.	Point of non-interference. (on/about 600 kHz)	Output meter across voice coil.	T ₁ (1st IFT) T ₂ (2nd IFT) T ₃ (3rd IFT)	Adjust for maximum output.
"	550 kHz	550 kHz [6.08mm ($\frac{1}{4}$ ")]	"	L ₅ (OSC Coil) (*) L ₁ (ANT Coil)	Adjust for maximum output. Adjust L ₁ by moving coil bobbin along ferrite core.
"	1500 kHz	1500 kHz [57.27mm (2 $\frac{1}{4}$ ")]	"	C ₂₀ (OSC Trimmer) C ₈ (ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
SW ₁ ALIGNMENT					
Connect to point TP₁ through 10PF capacitor Common to earth.	1.6 MHz	1.6 MHz [3.01mm ($\frac{1}{8}$ ")]	"	L ₆ (OSC Coil) (*) L ₉ (ANT Coil)	Adjust for maximum output. Adjust L ₉ by moving coil bobbin along ferrite core.
"	4.5 MHz	4.5 MHz [60mm (2 $\frac{3}{8}$ ")]	"	C ₂₁ (OSC Trimmer) C ₉ (ANT Trimmer)	Adjust for maximum output. Repeat steps (4) and (5).
(*) Cement antenna bobbin with wax after completing alignment.					
SW ₂ ALIGNMENT					
"	4.5 MHz	4.5 MHz [3.01mm ($\frac{1}{8}$ ")]	"	L ₇ (OSC Coil) L ₂ (ANT Coil)	Adjust for maximum output.
"	12 MHz	12 MHz [60mm (2 $\frac{3}{8}$ ")]	"	C ₂₂ (OSC Trimmer) C ₁₀ (ANT Trimmer)	Adjust for maximum output. Repeat steps (6) and (7).
SW ₃ ALIGNMENT					
"	12 MHz	12 MHz [3.01mm ($\frac{1}{8}$ ")]	"	L ₈ (OSC Coil) L ₃ (ANT Coil)	Adjust for maximum output.
"	26 MHz	26 MHz [60mm (2 $\frac{3}{8}$ ")]	"	C ₂₃ (OSC Trimmer) C ₁₁ (ANT Trimmer)	Adjust for maximum output. Repeat steps (8) and (9).
RECORDING BIAS ALIGNMENT					
CIRCUIT	VTVM CONNECTION		ADJUSTMENT		REMARKS
RECORDING BIAS	Connect positive side to test point TP₃ and negative side to test point E .		R ₁₃₀ (Bias Voltage Control)		Adjust R ₁₃₀ for 6mV of VTVM reading.

④ R-5310B ④

Schematic Diagram-Model R-5310B(A)



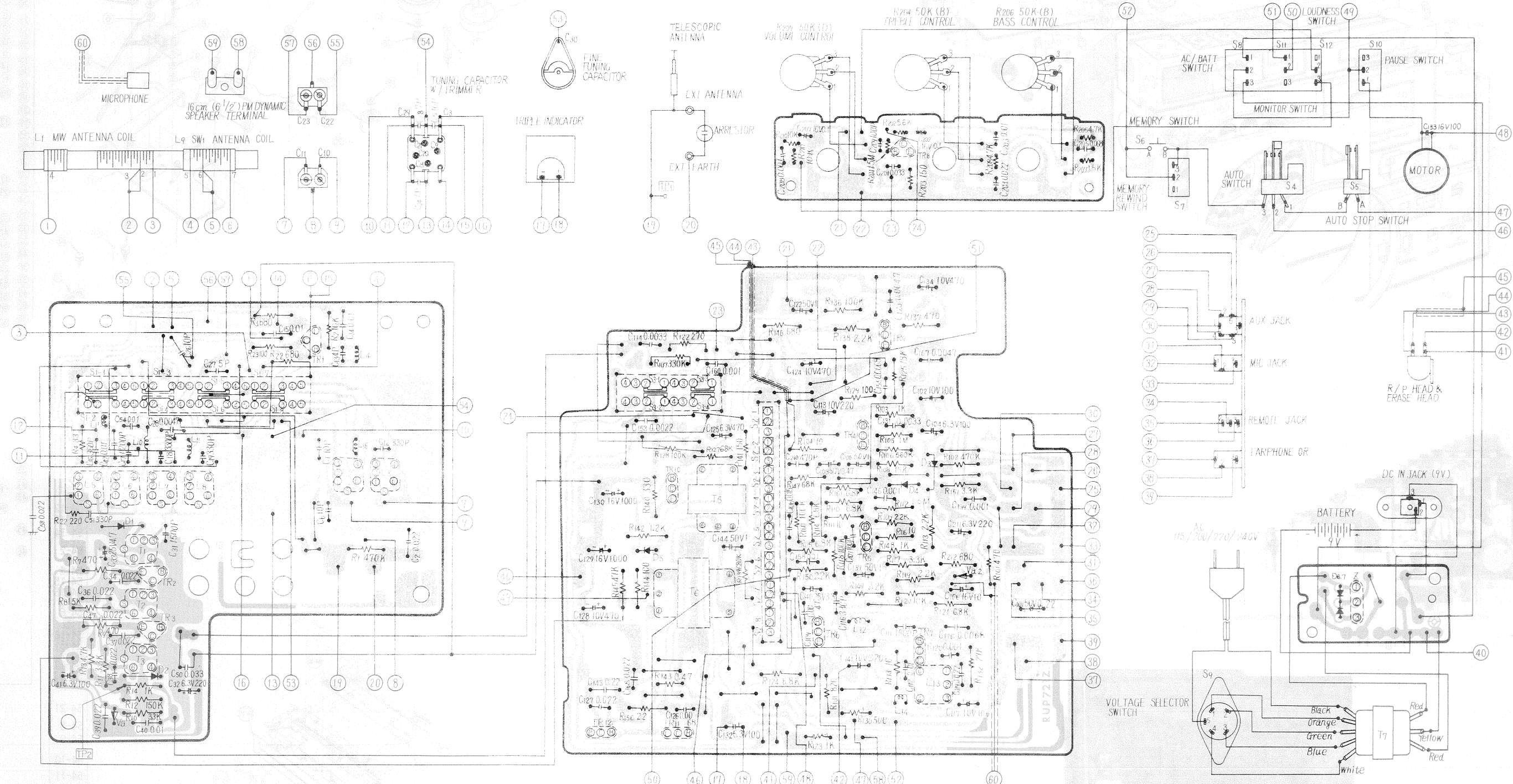
Notes:

- S1-1~S1-8: Band selector switch in "MW" position.
- S2-1~S2-8: Tape selector switch in "PLAY" position.
- S3-1~S3-4: Radio-Sleep-Tape selector switch in "RADIO" position.
- S4: Auto switch in "PLAY" position.
- S5: Auto stop switch in "OFF" position.
- S6: Memory switch in "OFF" position.
- S7: Memory ON-OFF switch in "ON" position.
- S8: AC-Battery selector switch in "Battery" position.
- S9: Voltage selector switch in "115V" position.
- S10: Pause switch in "OFF" position.
- S11: MIC monitor switch in "OFF" position.
- S12: Loudness switch in "OFF" position.
- DC voltage measurements are taken with circuit tester 10KΩ/V from negative terminal of battery.
- ... Playback position () ... Recording position.
- Battery current: No signal 43 mA
Maximum output 680 mA
- Indicates that only parts specified by the manufacturer be used for replacement in critical circuits.

Circuit Board Wiring View - Model R-5310B (A)

CABINET PARTS LOCATIONS

TR ₁	TR ₂	TR ₃	TR ₄	TR ₅	TR ₆	TR ₇	TR ₈	TR ₉	TR ₁₀	TR _{11,12}
C 4.14V	C 4.3V	C 4.8V	PLAY BACK RECORING	PLAY BACK RECORING	C PLAY BACK RECORING	RECORING	C 3.4V	C 2.23V	C 6.59V	C 9V
B 1.14V	B 1.01V	B 1.2V	B 3.85V 3.42V	B 3.85V 3.42V	B 5.35V 8.95V	B 6.35V	B 0.65V	B 1.1V	B 2.23V	B 0.66V
E 0.52V	E 0.34V	E 0.52V	B 0.69V 0.55V	B 0.69V 0.55V	B 0.76V 0.5V	B 0.81V	B 0.06V	B 0.48V	B 1.57V	B 0.02V
Ie 0.79mA	Ie 1.55mA	Ie 1.33mA	E 0.16V 0.01V	E 0.16V 0.01V	E 1.1V 0V	E 0.36V	Ie 0.4mA	Ie 1.2mA	Ie 3mA	Ie 19mA



TR&D	D1	D2	TR2	TR3	TR1	TR7	D5	TR10	TR11	TR12	TR13	TR14	TR15	TR16	TR17	TR18	TR19	TR20	TR21	TR22	TR23	TR24	TR25	TR26	TR27	TR28	TR29	TR30	TR31	TR32	TR33	TR34	TR35	TR36	TR37	TR38	TR39	TR40	TR41	TR42	TR43	TR44	TR45	TR46	TR47	TR48	TR49	TR50	TR51	TR52	TR53	TR54	TR55	TR56	TR57	TR58	TR59	TR60	TR61	TR62	TR63	TR64	TR65	TR66	TR67	TR68	TR69	TR70	TR71	TR72	TR73	TR74	TR75	TR76	TR77	TR78	TR79	TR80	TR81	TR82	TR83	TR84	TR85	TR86	TR87	TR88	TR89	TR90	TR91	TR92	TR93	TR94	TR95	TR96	TR97	TR98	TR99	TR100
T&L	L1	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20	L21	L22	L23	L24	L25	L26	L27	L28	L29	L30	L31	L32	L33	L34	L35	L36	L37	L38	L39	L40	L41	L42	L43	L44	L45	L46	L47	L48	L49	L50	L51	L52	L53	L54	L55	L56	L57	L58	L59	L60	L61	L62	L63	L64	L65	L66	L67	L68	L69	L70	L71	L72	L73	L74	L75	L76	L77	L78	L79	L80	L81	L82	L83	L84	L85	L86	L87	L88	L89	L90	L91	L92	L93	L94	L95	L96	L97	L98	L99	L100	

⊕ Voltage Line

Circuit Board Wiring View-Model R-5310B ①

TR ₁	
C	4.14V
B	1.14V
E	0.52V
I _e	0.79mA

TR ₂	
C	4.3V
B	1.01V
E	0.34V
I _e	1.55mA

TR ₃	
C	4.8V
B	1.2V
E	0.52V
I _e	1.33mA

TR ₄	
PLAY BACK RECORDING	
C	3.85V 3.42V
B	0.69V 0.55V
E	0.16V 0.01V
I _e	0.9mA 0.9mA

TR ₅	
PLAY BACK RECORDING	
C	3.06V 3.39V
B	0.65V 0.66V
E	0.02V 0.02V
I _e	1.8mA 1.8mA

TR ₆	
PLAY BACK RECORDING	
C	5.35V 8.95V
B	0.76V 0.5V
E	0.11V 0V
I _e	0.46mA 0.46mA

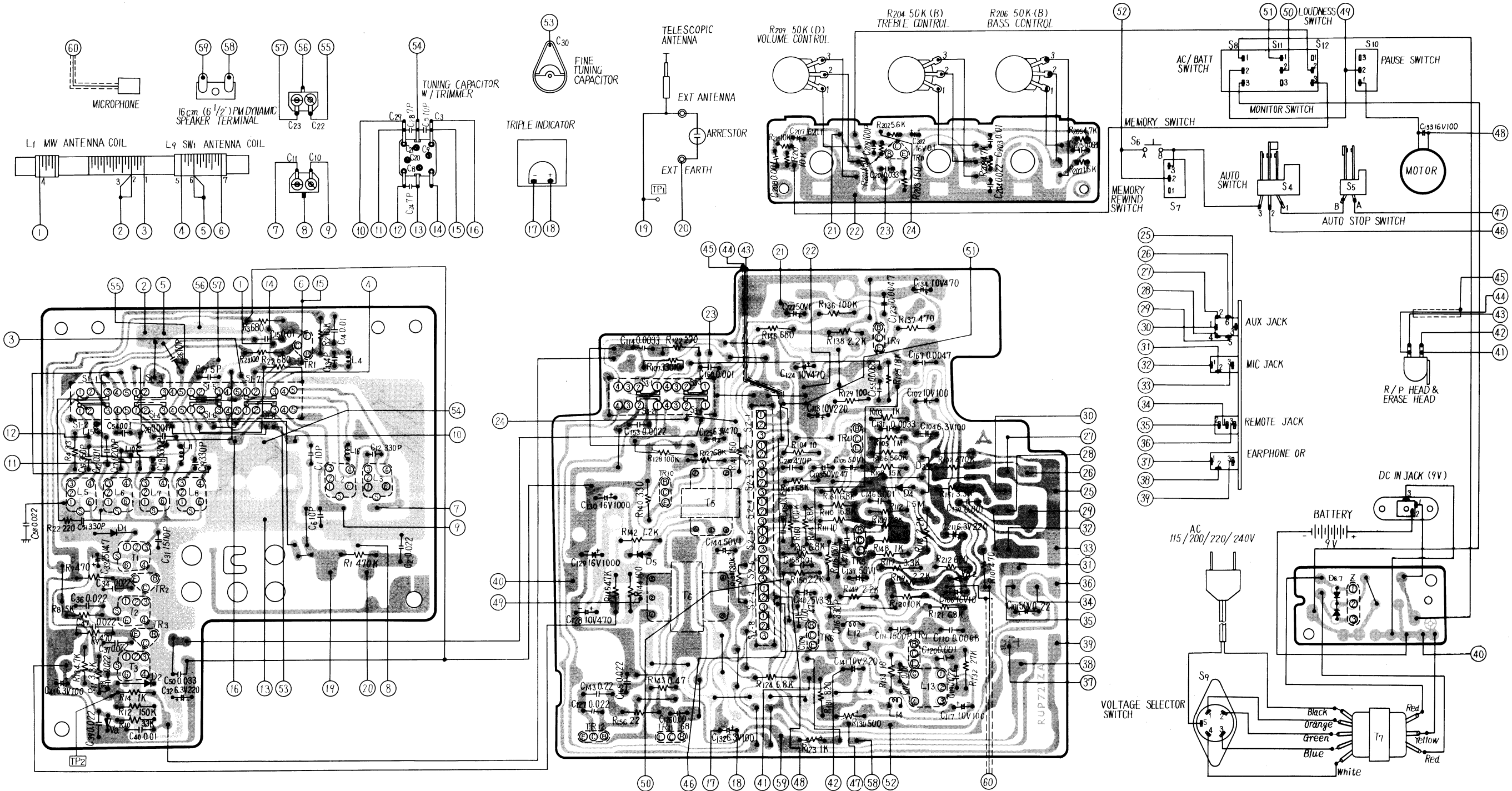
TR ₇	
RECORDING	
C	6.35V
B	0.81V
E	0.36V
I _e	36mA

TR ₈	
C	3.4V
B	0.65V
E	0.06V
I _e	0.4mA

TR ₉	
C	2.23V
B	1.1V
E	0.48V
I _e	1.2mA

TR ₁₀	
C	6.59V
B	2.23V
E	1.57V
I _e	3mA

TR _{11,12}	
C	9V
B	0.66V
E	0.02V
I _e	19mA

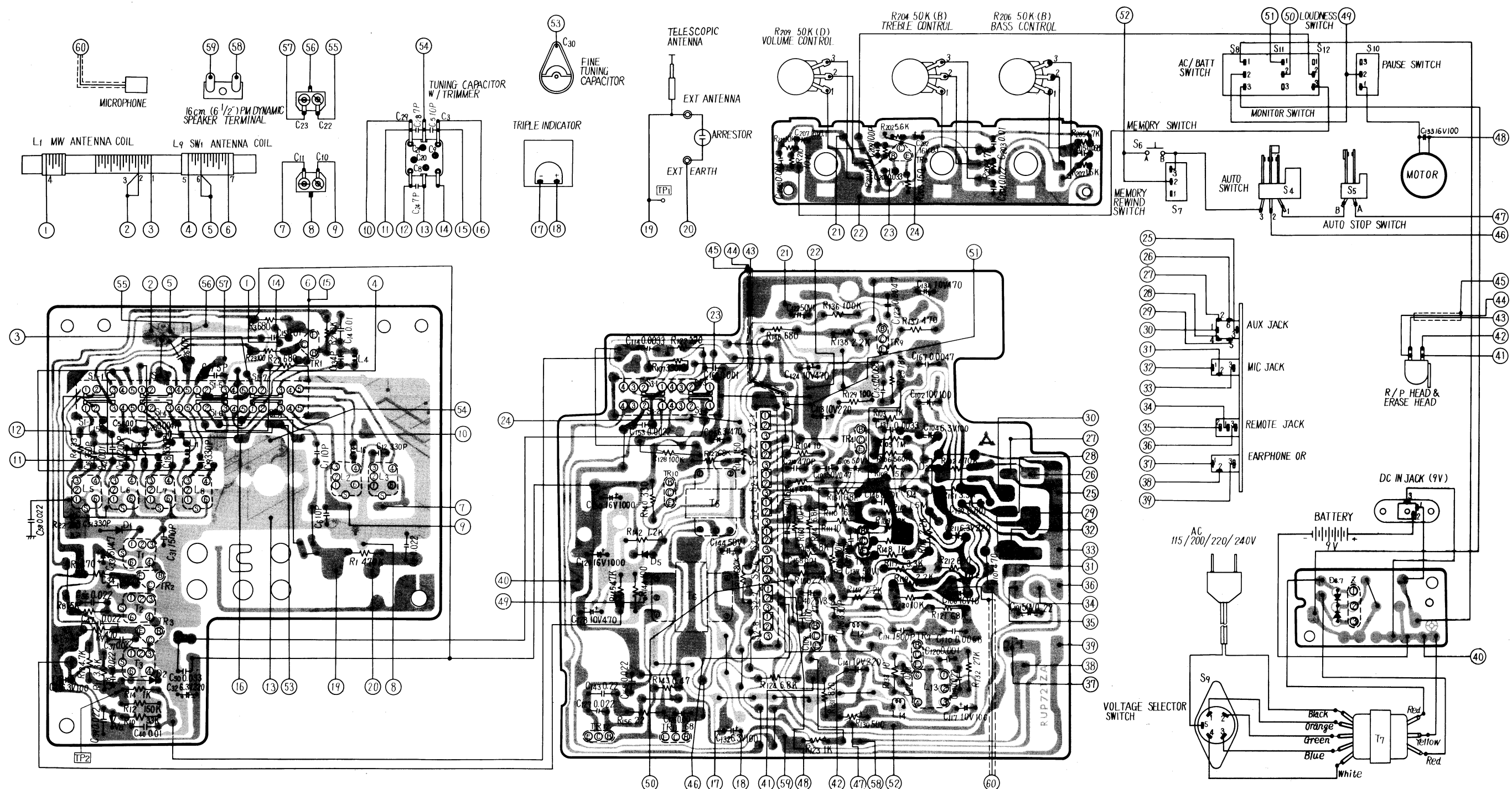


TR&D	D1	D2	TR2	TR3	TR1	TR12	D5	TR10	TR11	TR9	TR4	TR1	TR8	TR7	D3
T&L	L1	L5	L10	L6	T1	T2	T3	L7	L11	L8	L9	L2	L4	L13	T7

⊕ Voltage Line

Circuit Board Wiring View-Model R-5310B (A)

TR ₁		TR ₂		TR ₃		TR ₄		TR ₅		TR ₆		TR ₇		TR ₈		TR ₉		TR ₁₀		TR _{11,12}	
C	4.14V	C	4.3V	C	4.8V	PLAY BACK	RECORDING	PLAY BACK	RECORDING	PLAY BACK	RECORDING	RECORDING		C	3.4V	C	2.23V	C	6.59V	C	9V
B	1.14V	B	1.01V	B	1.2V	B	0.69V 0.55V	B	0.65V 0.66V	B	0.76V 0.5V	B	0.81V	B	0.65V	B	1.1V	B	2.23V	B	0.66V
E	0.52V	E	0.34V	E	0.52V	E	0.16V 0.01V	E	0.02V 0.02V	E	0.11V 0V	E	0.36V	E	0.06V	E	0.48V	E	1.57V	E	0.02V
I _e	0.79mA	I _e	1.55mA	I _e	1.33mA	I _e	0.9mA 0.9mA	I _e	1.8mA 1.8mA	I _e	0.46mA 0.46mA	I _e	36mA	I _e	0.4mA	I _e	1.2mA	I _e	3mA	I _e	19mA



TR&D	D1 D2 TR2 TR3										TR1										TR12 D5 TR10 TR11										TR4 TR1 TR8 TR9 TR7 D4 TR7 D3											
T&L	L1 L5 L15 L16 L7 TR2 T3 L7	L11 L8 L9										L2 L4 L16 L3										T6 T5										L12 L4 L13										T7

⊕ Voltage Line

■ CABINET PARTS LOCATIONS

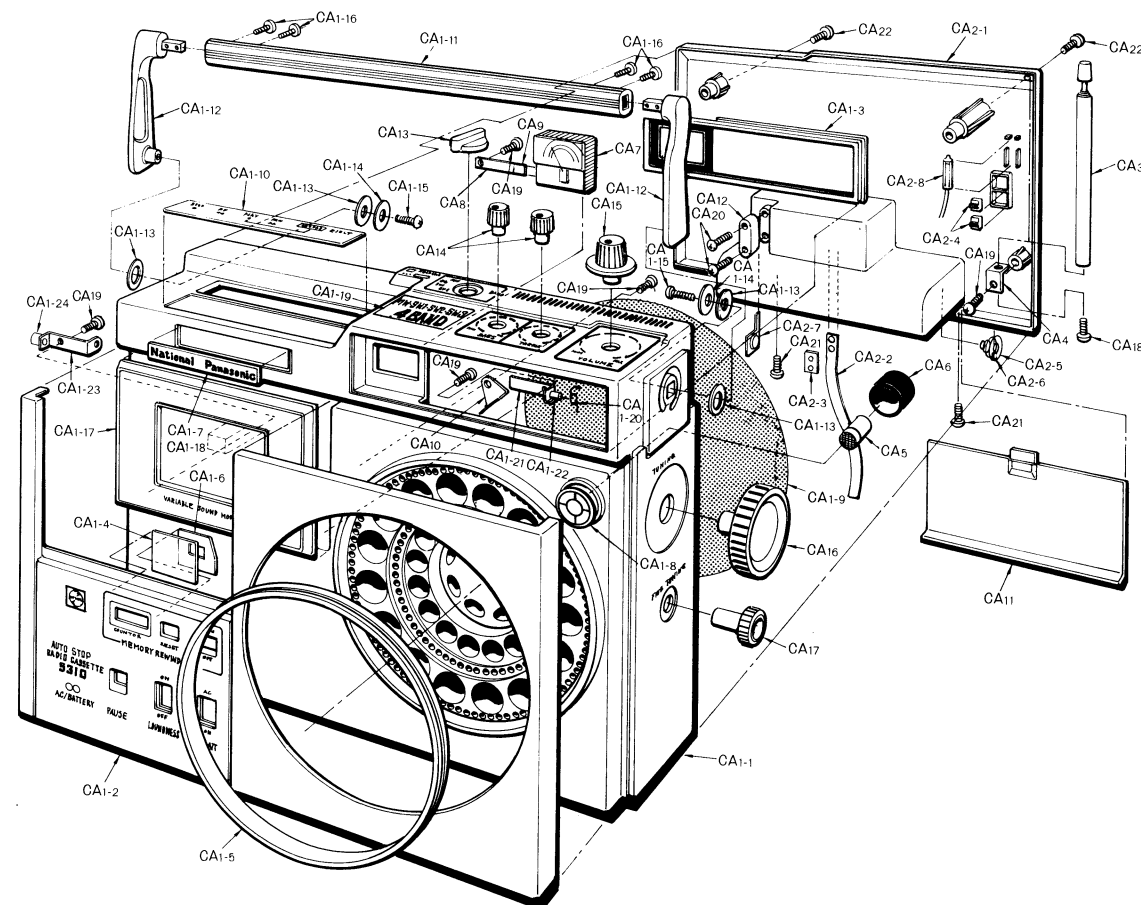


Fig. 10

■ CHASSIS PARTS LOCATIONS

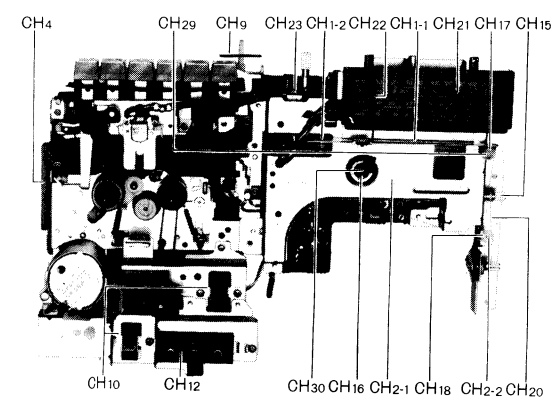


Fig. 11

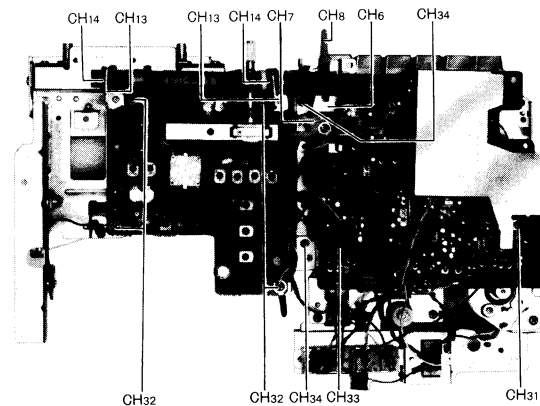


Fig. 12

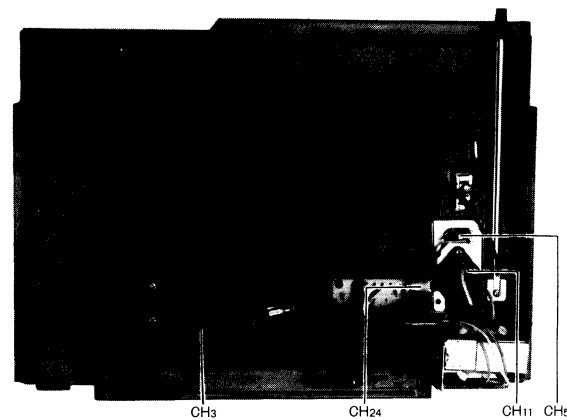


Fig. 13

MECHANISM PARTS LOCATIONS-TAPE DECK

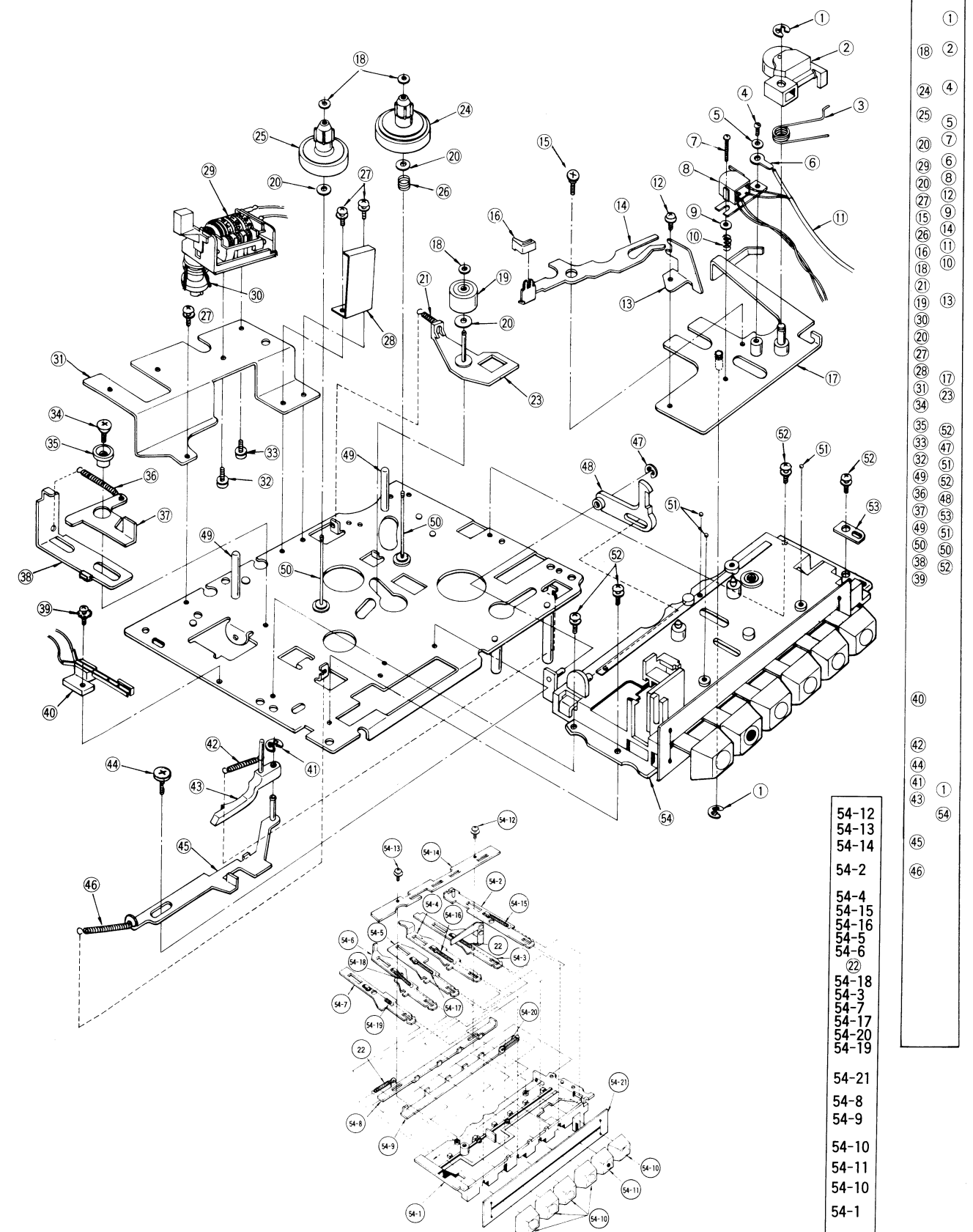


Fig. 14 (Face View)

■ CABINET PARTS LOCATIONS

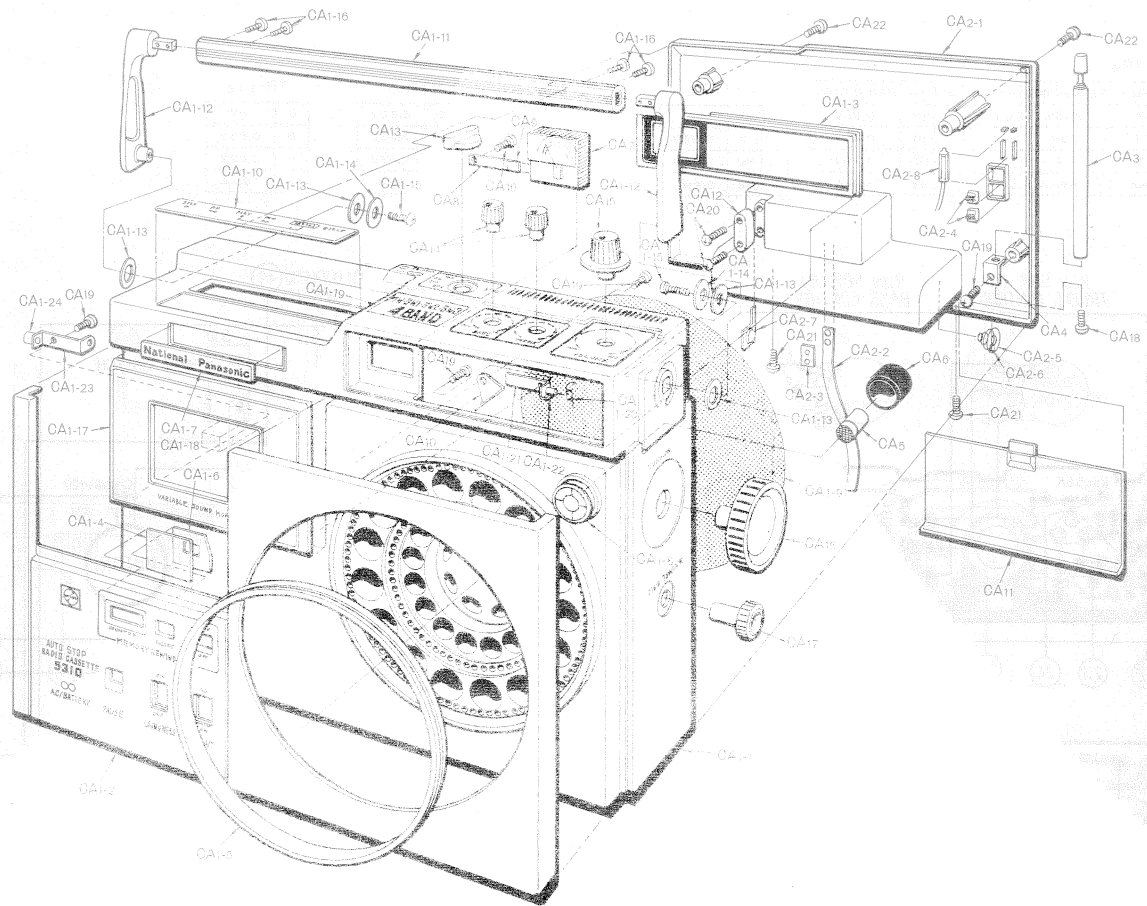


Fig. 10

■ CHASSIS PARTS LOCATIONS

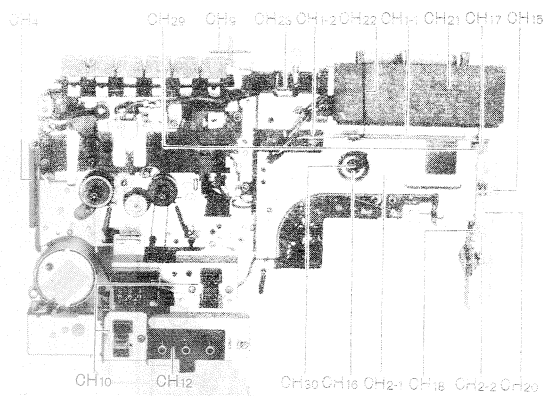


Fig. 11

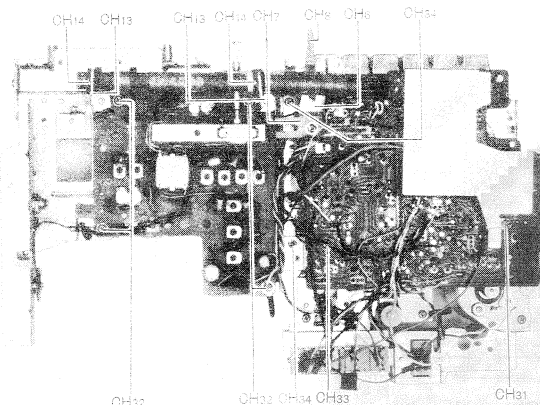


Fig. 12

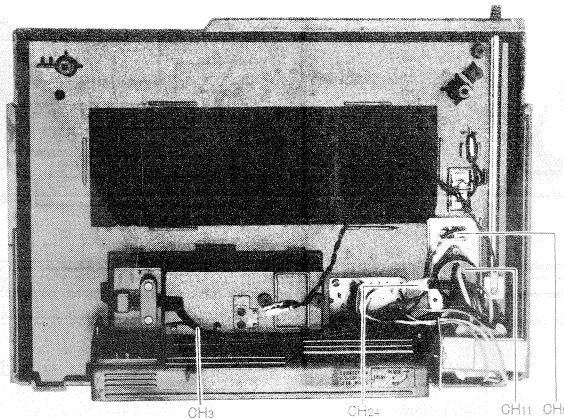
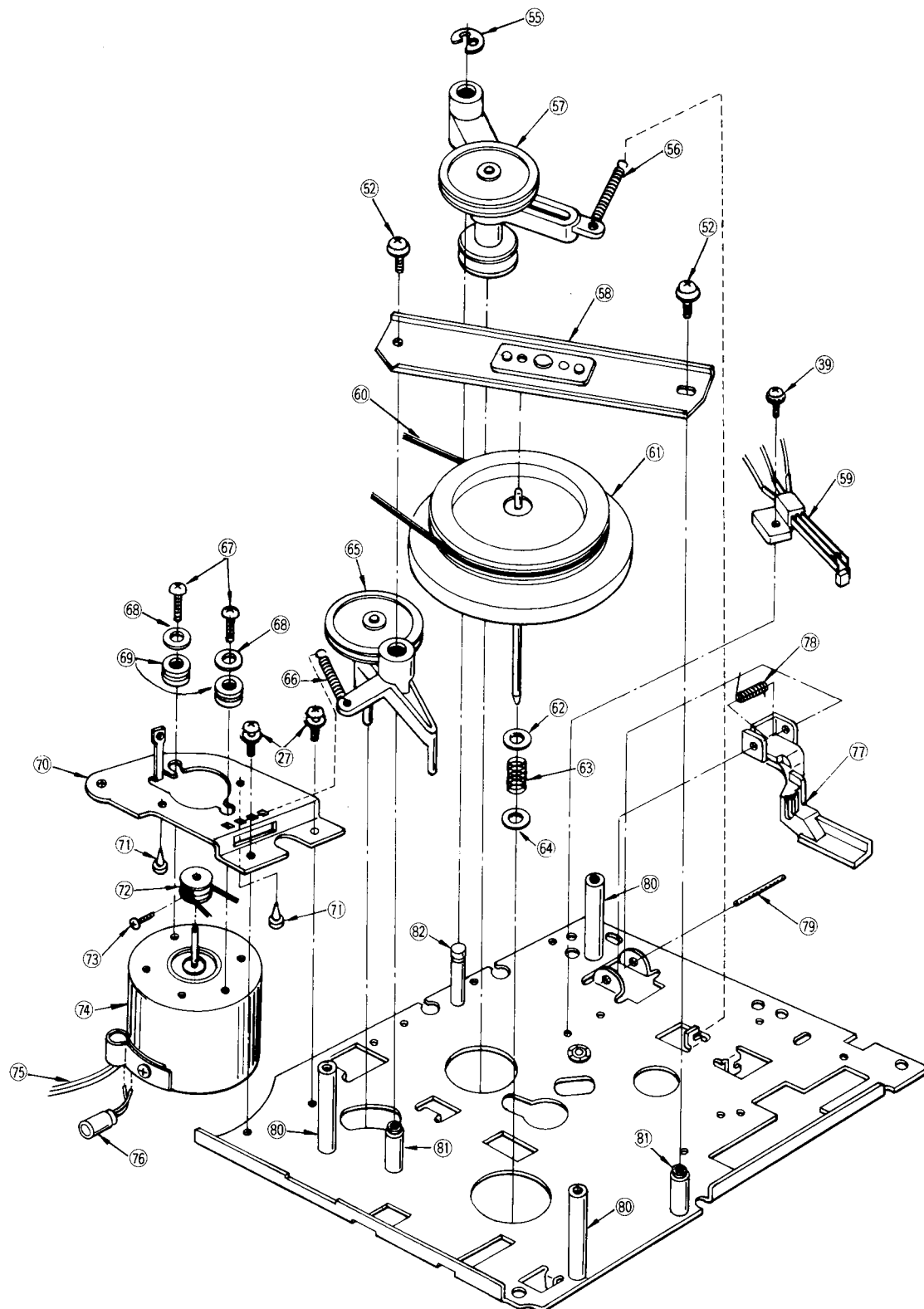


Fig. 13

MECHANISM PARTS LOCATIONS-TAPE DECK



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Fig. 15 (Rear View)

REPLACEMENT PARTS LIST.....Model R-5310B (RD7603-1294)

NOTES: 1.Part numbers are indicated on most mechanical parts.
Please use this part number for parts orders.
2.X-Z rank: X rank parts will cover 80% of repair needs.
X+Y rank parts will cover 95% of repair needs.
Z rank parts are less necessary.
3. **XXXX** Indicates that only parts specified by the manufacturer be used for replacement in critical circuits.
4.Part numbers shown in bold letters are service standard parts and may differ from Projection parts.
5.The O mark is used by the manufacturing plant only.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
TRANSISTORS AND DIODES				
TR1,2,3	2SC829	Transistor(Si), Converter, 1st IF Amplifier, 2nd IF Amplifier	3	X
TR4,5,8	2SC900	Transistor(Si), Pre Amplifier	3	X
TR6,7	2SC828	Transistor(Si), Meter Amplifier, Bias Oscillator	2	X
TR9,10	2SC945	Transistor(Si), AF Amplifier	2	X
TR11,12	2SC1568	Transistor(Si), Power Amplifier	2	X
D1,2,3,4	OA90	Diode(Ge), D.AGC, Detector & AGC, REC AGC	4	X
D5	RVDVD1150M	Diode(Si), Operation Compensator	1	X
D6,7	RVD10D1	Rectifier	2	X
VARIATITES				
Val,2	EYV320D1R2J2	Variatite, Operation Compensator	2	X
COILS AND TRANSFORMERS				
L1,9	RLF5F72-O	Antenna Coil, MW-SW1	1	X
L2	RLA3M5	Antenna Coil, SW2	1	X
L3	RLA3M6	Antenna Coil, SW3	1	X
L4,15	RLQY75S5	Choke Coil	2	Y
L5	RLO2M6	Oscillator Coil, MW	1	X
L6	RLO3M6	Oscillator Coil, SW1	1	X
L7	RLO3M7	Oscillator Coil, SW2	1	X
L8	RLO3M8	Oscillator Coil, SW3	1	X
L10	RLQY10G5	Choke Coil	1	Y
L11	RLQY15S5	Choke Coil	1	Y
L12	RLQZ1231-Z	Choke Coil	1	Y
L13	RLO9C12	Oscillator Coil, Bias	1	X
L14	RLQZ102-1-Q	Choke Coil	1	Y
L16	RLQY50S5	Choke Coil	1	Y
T1	RLI2M203	IFT, 1st	1	X
T2	RLI2M205	IFT, 2nd	1	X
T3	RLI2M402	IFT, 3rd	1	X
T5	RLT3F33-W	Input Transformer, P=1.4KΩ:S=1.4KΩ	1	X

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
T6	RLT2H28-V	Output Transformer, P=45Ω:S=8Ω	1	X
T7	RLT5K86-W	Power Transformer	1	X
VARIABLE RESISTORS				
R204,206	EVHWOAF15B54	Variable Resistor, 50KΩ(B), Bass & Treble Control	2	X
R209	EVHWOAF15D54	Variable Resistor, 50KΩ(D), Volume Control	1	X
R123	EVLTOAA00B13	Semi-Fixed Variable Resistor, 1KΩ(B)	1	X
R130	EVLTOAA00B52	Semi-Fixed Variable Resistor, 500Ω(B)	1	X
R128	EVLS3AA00B15	Semi-Fixed Variable Resistor, 100KΩ(B)	1	X
VARIABLE CAPACITORS				
C3,29	PVC2K20T1	Tuning Capacitor, W/Trimmer Capacitor(C8,9,20,21)	1	X
C30	ECV1YW02D70A	Fine Tuning Capacitor	1	X
C10,11,22,23	RCV2T-16M	Trimmer Capacitor	2	X
COMPONENT COMBINATION				
Z1	RXAF103P22HD	Component Combination, 0.01μF×2	1	X
SPEAKER				
SP	RAS16P08	Speaker, Imp.8Ω	1	X
SWITCHES				
S1-1~S1-8	RSR87ZK-A	Switch, Band Selector	1	X
S2-1~S2-8	RSH65Z-F	Switch, Tape Selector	1	X
S3-1~S3-4	RSS103Y-M	Switch, Radio-Sleep-Tape Selector	1	X
S7	RST41Z-H	Switch, Memory ON-OFF	1	X
S8,11,12	RST42ZS-P	Switch, AC/BATT. Monitor & Loudness	1	X
S9	RSR29-3	Switch, Voltage Selector	1	X
S10	RST67Z-H	Switch, Pause	1	X
RESISTORS				
R104,111,116	ERD25TJ100	10Ω, 1/4Watt, ±5%, Carbon	4	Z
R23,129,144	ERD25TJ101	100Ω, 1/4Watt, ±5%, Carbon	3	Z
R141	ERD25TJ151	150Ω, 1/4Watt, ±5%, Carbon	1	Z
R140	ERD25TJ331	330Ω, 1/4Watt, ±5%, Carbon	1	Z
R7,9,101,137	ERD25TJ471	470Ω, 1/4Watt, ±5%, Carbon	4	Z
R3,146,212	ERD25TJ681	680Ω, 1/4Watt, ±5%, Carbon	3	Z
R131	ERD25TJ821	820Ω, 1/4Watt, ±5%, Carbon	1	Z
R14,103,148	ERD25TJ102	1KΩ, 1/4Watt, ±5%, Carbon	3	Z

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R142	ERD25TJ122	1.2K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R109,113,138 149,150	ERD25TJ222	2.2K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	5	Z
R10,11,117, 151	ERD25TJ332	3.3K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	4	Z
R110,114,115 121,124,161	ERD25TJ682	6.8K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	6	Z
R2,120	ERD25TJ103	10K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	2	Z
R108	ERD25TJ153	15K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R125	ERD25TJ183	18K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R119	ERD25TJ223	22K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R132	ERD25TJ273	27K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R145	ERD25TJ473	47K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R127,147	ERD25TJ683	68K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	2	Z
R118,136,160	ERD25TJ104	100K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	3	Z
R122	ERD25TJ274	270K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R107	ERD25TJ334	330K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R1,102	ERD25TJ474	470K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	2	Z
R106	ERD25TJ564	560K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R139	ERD25TJ684	680K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R105	ERD25TJ105	1M Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R112	ERD25TJ155	1.5M Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R4	ERD25TJ330	33 Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R20	ERD25TJ221	210 Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R8	ERD25TJ152	1.5K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R13	ERD25TJ472	4.7K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R12	ERD25TJ154	150K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R203	ERD25TJ151	150 Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R207	ERD25TJ152	1.5K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R205,208	ERD25TJ472	4.7K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	2	Z
R202	ERD25TJ562	5.6K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R210,211	ERD25TJ103	10K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	2	Z
R201	ERD25TJ155	1.5M Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R156	ERD25TJ220	22 Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R22	ERD25TJ681	680 Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R143	ERX1ANJR47	0.47 Ω , 1Watt, $\pm 5\%$, Metal Oxide	1	Z

CAPACITORS

C13	ECDD1H040C	4PF, 50WV, ± 0.25 PF, Ceramic	1	X
C27	ECDD1H050CC	5PF, 50WV, ± 0.25 PF, Ceramic	1	X
C24,25	ECDD1H070CC	7PF, 50WV, ± 0.25 PF, Ceramic	2	X
C1,5,6,26	ECDD1H100KC	10PF, 50WV, $\pm 10\%$, Ceramic	4	X
C107,209	ECDD1H101K	100PF, 50WV, $\pm 10\%$, Ceramic	2	X
C2,36,39	ECCK1H223PF	0.022 μ F, 50WV, $\pm 10\%$, Ceramic	3	X
C50	ECCK1H333PF	0.033 μ F, 50WV, $\pm 10\%$, Ceramic	1	X
C210	ECCK1H471MD	470PF, 50WV, $\pm 20\%$, Ceramic	1	X
C139,160	ECCK1H102MD	0.001 μ F, 50WV, $\pm 20\%$, Ceramic	2	X
C153	ECCK1H222MD	0.0022 μ F, 50WV, $\pm 20\%$, Ceramic	2	X
C114,131	ECCK1H332MD	0.0033 μ F, 50WV, $\pm 20\%$, Ceramic	2	X
C28,109,123 167	ECCK1H472MD	0.0047 μ F, 50WV, $\pm 20\%$, Ceramic	4	X
C110,126,155	ECKE1H682MD	0.0068 μ F, 50WV, $\pm 20\%$, Ceramic	3	X
C108	ECKE1H153MD	0.015 μ F, 50WV, $\pm 20\%$, Ceramic	1	X

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C127,165	ECCK1H223MD	0.022 μ F, 50WV, $\pm 20\%$, Ceramic	2	X
C14,15,40,42, 54,146,158	ECCK1H103MD	0.01 μ F, 50WV, $\pm 20\%$, Ceramic	7	X
C34,37,47	ECCK1H223MD	0.022 μ F, 50WV, $\pm 20\%$, Ceramic	3	X
C58	ECCK1H223MD-Y	0.022 μ F, 50WV, $\pm 20\%$, Ceramic	1	X
C12,19,51, 116	ECQS1331JZ	330PF, 125WV, $\pm 5\%$, Styrol	4	X
C16	ECQS1361JZ	360PF, 125WV, $\pm 5\%$, Styrol	1	X
C17	ECQS05122KZ	1200PF, 50WV, $\pm 10\%$, Styrol	1	X
C31	ECQS05152KZ	1500PF, 50WV, $\pm 10\%$, Styrol	1	X
C111	ECQS05152JZ	1500PF, 50WV, $\pm 5\%$, Styrol	1	X
C18	ECQS05332KZ	3300PF, 50WV, $\pm 10\%$, Styrol	1	X
C208	ECQG05102MZ	0.001 μ F, 50WV, $\pm 10\%$, Polyester	1	X
C120,203	ECQG05103MZ	0.01 μ F, 50WV, $\pm 10\%$, Polyester	2	X
C38,119,204	ECQG05223MZ	0.022 μ F, 50WV, $\pm 10\%$, Polyester	3	X
C201	ECQG05333MZ	0.033 μ F, 50WV, $\pm 10\%$, Polyester	1	X
C205	ECQG05683MZ	0.068 μ F, 50WV, $\pm 10\%$, Polyester	1	X
C143	ECQG05224MZ	0.22 μ F, 50WV, $\pm 10\%$, Polyester	1	X
C112	ECQG05103KZ	0.01 μ F, 50WV, $\pm 10\%$, Polyester	1	X
C202,207	ECAG16ER1-Y	0.1 μ F, 16WV, Electrolytic	2	Y
C41,104,132 102,117	ECEA10V100	100 μ F, 10WV, Electrolytic	5	Y
C32,211	ECEA6V220	220 μ F, 6.3WV, Electrolytic	2	Y
C125	ECEA6V470	470 μ F, 6.3WV, Electrolytic	1	Y
C113,141	ECEA16V220	220 μ F, 16WV, Electrolytic	2	Y
C124,128,134	ECEA16V470	470 μ F, 16WV, Electrolytic	3	Y
C106	ECEA16V10	10 μ F, 16WV, Electrolytic	1	Y
C129,130	ECEA16V1000	1000 μ F, 16WV, Electrolytic	2	Y
C140	ECEA50V3R3	3.3 μ F, 50WV, Electrolytic	1	Y
C33	ECEA35V4R7	4.7 μ F, 35WV, Electrolytic	1	Y
C105,122,137 144	ECEA50V1	1 μ F, 50WV, Electrolytic	4	Y
C101	ECEA50VR22	0.22 μ F, 50WV, Electrolytic	1	Y
C103	ECEA50VR47	0.47 μ F, 50WV, Electrolytic	1	Y

CABINET

CA1-1	→RYMR5310BX	Cabinet Body Assembly	1	X
CA1-2		Cabinet Body Only	(1)	
CA1-3		Escutcheon	(1)	
CA1-4		Panel, Dial	(1)	
CA1-5		Panel, Counter	(1)	
CA1-6	Not Available.	Ornament, Speaker	(1)	
CA1-7	Order	Cover, Reset Switch	(1)	
CA1-8	RYMR5310BX	Badge, National Panasonic Mark	(1)	
CA1-9		Ornament, MIC	(1)	
CA1-10		Baffle	(1)	
		Indicating Plate, Cabinet Upper Side	(1)	
CA1-11	RKX101Z	Handle, Cabinet	1	Y
CA1-12	RKX100YS	Arm, Handle	2	Y
CA1-13	RNW823	Washer(Nylon), Handle Arm M'tg	4	Z

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
CA1-14	XWG3F10	Washer(Metal), Handle Arm M'tg	2	Z
CA1-15	XYN3+C8S	Screw, Handle Arm M'tg	2	Z
CA1-16	XSB3+6BCS	Screw, Handle M'tg	4	Z
CA1-17	RKE9017Y	Cover with Indicating Plate, Cassette Box	1	Y
CA1-18	RHP567B	Sheet, Tape	1	Z
CA1-19	RGX648Z	Indicating Plate, 4 BAND Mark	1	Z
CA1-20	RUS181Z	Spring, Cassette Box	1	Y
	RXE3R5310BX	Bracket Assembly, Cassette Box (Right)	1	Z
CA1-21	Not Available, Order	Bracket Only	(1)	
CA1-22	RXE3R5310BX	Shaft, Bracket	(1)	
	RXE4R5310BX	Bracket Assembly, Cassette Box (Left)	1	Z
CA1-23	Not Available, Order	Bracket Only	(1)	
CA1-24	RXE4R5310BX	Shaft, Bracket	(1)	
CA2-1	RYFR5310BXD	Cabinet Back Cover Assembly	1	OX
CA2-2	Not Available, Order	Cabinet Back Cover Only	(1)	
CA2-3	RYFR5310BXD	Tape, Battery	(1)	
CA2-4	RJS71Z	Stopper, Tape	(1)	
CA2-5	RJC505Z	Terminal, EXT.ANT & EARTH	2	Z
CA2-6	RJC505Z	Spring, Battery ⊖ Side	2	Z
CA2-7	RJT398A	Connecting Pipe, Terminal	2	Z
CA2-8	RJC111A	Terminal, Battery ⊕ Side	2	Z
CA3	XAN5T25	Neon Lamp, Arrestor	1	X
CA4	XEARV154HBSY	Telescopic Antenna 1011.5mm	1	X
	RMA54A	Bracket(Metal), Telescopic Antenna	1	Z
CA5	RJM121Y	Microphone	1	X
CA6	RHG416Z	Rubber Cover, Microphone	1	Z
CA7	RSM2607Y-K	Meter, TUNING/REC LEVEL/BATTERY Indicator	1	X
CA8	RMM17Z	Bracket, Meter M'tg	1	Z
CA9	RHG914-1	Rubber, Meter Bracket	1	Z
CA10	RMS5B	Bracket, Speaker	4	Z
CA11	RKK9004Z	Cover, Battery	1	X
CA12	RHR550A	Bracket(Plastic), AC Cord	1	Z
CA13	RBS83ZK	Knob, Band Selector	1	X
CA14	RBN283Y	Knob, Bass & Treble Control	2	X
CA15	RBN284Y	Knob, Volume Control	1	X
CA16	RBN250ZK	Knob, Tuning	1	X
CA17	RBN285ZK	Knob, Fine Tuning	1	X
CA18	XYN3+C6S	Screw, Telescopic Antenna M'tg	1	Z
CA19	XTN3+10B	Screw, Bracket, Telescopic Antenna, Speaker & Meter M'tg	6	Z
CA20	XTN3+16B	Screw, AC Cord Bracket(Plastic) M'tg	2	Z
CA21	XTB3+12BFN	Screw, Cabinet Cover M'tg	2	Z
CA22	XSB3+16BNS	Screw, Cabinet Cover M'tg	2	Z

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
CHASSIS				
CH1-1	RXE1R5310BX	Pointer Guide Assembly	1	Z
CH1-2	Not Available, Order	Guide Only	(1)	
	RXE1R5310BX	Shaft, Pulley	(3)	
CH2-1	RXE2R5310BX	Chassis Assembly	1	Z
CH2-2	Not Available, Order	Chassis Only	(1)	
	RXE2R5310BX	Shaft, Pulley	(1)	
CH3	RJA52	AC Cord, Power Source	1	Y xxxx
CH4	RJJ78Z-C	Jack, AUX, MIC, REMOTE & Earphone	1	Y
CH5	RJJ104Z-C	Jack, DC IN	1	Y
CH6	RUB80ZS	Lever(Aluminum), Selector Switch	1	Z
CH7	RUB81Z	Lever(Bakelite), Selector Switch	1	Z
CH8	RUB9010Y	Lever, Selector Switch	1	Z
CH9	RUV323Y	Cover, Selector Switch	1	Z
	RUB129Z	Lever, Recording Switch	1	Z
CH10	RUV283A	Cover, Pause & Memory Switch	2	Z
CH11	RUV184Z	Cover, Voltage Selector Switch	1	Z
CH12	RUV330Z	Cover, Loudness, Monitor & AC/BATT. Switch	1	Z
CH13	RMA118Y	Bracket, Core Antenna	2	Z
CH14	RHG109	Rubber, Core Antenna	2	Z
	RMV22	Heat Sink, Transistor	1	Z
CH15	RDT1164ZK	Tuning Shaft	1	Y
CH16	RDD410Y	Drum, Dial	1	Y
CH17	RDR20-3	Pulley, Dial	1	Z
CH18	RDR21-1	Pulley, Dial	3	Z
CH19(Fig.6)	RDS4060A	Spring, Dial	1	Y
CH20	RDZ05A	Cord(500m), Dial	1 Roll	Y
CH21	RKD299Z	Scale, Dial	1	Z
CH22	RDP124ZA	Pointer, Dial	1	Y
	RHG5A	Rubber, Tuning Capacitor	1	Z
CH23	RHR700Z	Bracket(Bakelite), Band Selector	1	Z
CH24	RHR103A	Lead Cap, AC Cord	1	Z xxxx
CH25(Fig.2)	XTN3+10BR	Red Screw, Chassis M'tg	5	Z
CH26(Fig.2)	XTN3+16BR	Red Screw, Chassis M'tg	1	Z
CH27(Fig.2)	XTW3+8ER	Red Screw, Chassis M'tg	1	Z
CH28(Fig.2)	XYN3+C8RS	Red Screw, Chassis M'tg	1	Z
CH29	RNW150-2	Washer(Nylon), Pulley	4	Z
CH30	XYN26+C6	Screw, Tuning Capacitor & Drum M'tg	3	Z
	XNS8	Nut, Tuning Shaft M'tg	1	Z
	XWV8	Washer, Tuning & Fine Tuning Shaft M'tg	2	Z
	RHE6010A	Washer, Selector Switch Lever M'tg	1	Z
	XYN3+F8S	Screw, Selector Switch Lever M'tg	1	Z
CH31	XSN3+6S	Screw, P.C Board M'tg	2	Z
CH32	XTW3+6L	Screw, P.C Board M'tg	5	Z
CH33	XTN3+6F	Screw, P.C Board M'tg	1	Z
CH34	XTN3+8F	Screw, Chassis M'tg	2	Z

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
ACCESSORIES				
A1	XEH1A1-P	Magnetic Earphone	1	Y
A2	RJN12Z	Cassette Tape	1	Y
A3	1JP44ME0300	EXT. Antenna Lead Assembly	1	Y
A4	1JP39-1MEG50	EXT. Earth Lead Assembly	1	Y
A5	RJPL20ZS-H	Plug, Power Source	1	Y
PACKING MATERIALS				
P1	RPP175Z	Polyethylene Cover	1	Z
P2	RPN9134Y	Pad Complete	1	Z
P3	(Not Available, Order RPN9134Y)	Pad, Right Side	(1)	
		Pad, Left Side	(1)	
P4	RPN2161Z	Pad, Left Side	1	○Z
P5	RPG1285Y	Packing Case	1	Z
P6	RQX5695X	Instruction Book	1	Y
TAPE DECK				
1	RU-3076-2A	Tape Deck Assembly	1	X
	XUC3FK	E Ring, Pinch Roller & Head Plate M'tg	2	Z
2	QXL0664	Pinch Roller Assembly	1	Z
3	QBT1632-1	Spring, Pinch Roller	1	Y
4	XSN2-4	Screw, Head M'tg	1	Z
5	XWA2B	Washer, Head M'tg	1	Z
6	QJT0039	Lug Terminal, Head Lead	1	Z
7	QHQL1226	Screw, Head M'tg & Azimuth Adjusting	1	Z
8	WY034AZ	Head	1	X
9	XWG2BW	Washer, Head M'tg	1	Z
10	QBC1103A	Spring, Head	1	Z
11	QLSK2YBNC250	Lead Wire, Head	1	Z
12	XYN26+C4	Screw, Tape Guide M'tg	1	Z
13	QMA1814-1	Tape Guide	1	Z
14	QXL0969	Auto Stop Detecting Piece	1	Z
		Lever Assembly		
15	QHQL1220	Screw, Auto Stop Lever M'tg	1	Z
16	QBJ1585	Piece, Auto Stop Detecting	1	Z
17	XKK0070A	Head Base Assembly	1	Z
18	QWQL1124	Washer, Idler & Reel Table M'tg	3	Z
19	QDP1467	Idler	1	Y
20	QWQT0005	Washer, Idler & Reel Table M'tg	3	Z
21	QBT1405M	Spring, Idler Lever Assembly, Recording Lever & Catch Lever	3	Y
22	QXL0734	Idler Lever Assembly	1	Z
23	QXP0411A	Supply Reel Table	1	Z
24	QXPK0028-1	Takeup Reel Table	1	Z
25	QBCT0005	Spring, Supply Reel Table	1	Y
26	XYN26+C6	Screw, Retainer, DC Motor Bracket & etc. M'tg	5	Z

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
27	QBP1657	Retainer, Cassette Pressure	1	Z
28(S6)	QDC0070	Tape Counter with Memory Switch	1	Z
29	QDB0201	Belt, Tape Counter	1	Z
30	QMF1711-1	Bracket, Tape Counter	1	Z
31	XYN3+C6	Screw, Tape Counter M'tg	1	Z
32	XYN3+C8	Screw, Tape Counter M'tg	1	Z
33	XSC26+8	Screw, Recording Lever M'tg	1	Z
34	QMB1086	Spacer, Recording Lever	1	Z
35	QBT1489M	Spring, Recording Lever	1	Y
36	QML2385	Lever, Recording(Small)	1	Z
37	QML2384-2	Lever, Recording(Large)	1	Z
38	XYN2+E5	Screw, Leaf Switch M'tg	2	Z
39(S5)	QSB0170A	Leaf Switch	1	X
40	XUC25FK	E Ring, Auto Stop Pawl M'tg	1	Z
41	QBT1807	Spring, Auto Stop Pawl	1	Y
42	QML2440-3	Pawl, Auto Stop(Plastic)	1	Z
43	QHQL168	Screw, Auto Stop Lever M'tg	1	Z
44	QXL0661-1	Auto Stop Lever Assembly	1	Z
45	QBT1641	Spring, Auto Stop Lever	1	Y
46	XUC2FK	E Ring, Eject Lock Lever M'tg	1	Z
47	QBJK0099	Eject Lock Lever(Plastic)	1	Z
48	(Not Available, Order RU-3076-2A)	Shaft, Cassette Spacer	(2)	
49		Shaft, Reel Table	(2)	
50	QDK1012	Steel Ball, Head Plate & Flywheel	4	Z
51	XYN26+F6	Screw, Button Mechanism Assembly & etc. M'tg	6	Z
52	QMF1731	Fixing Plate	1	Z
53	QXKK0075R	Button Mechanism Assembly	1	Z
53-1		Base, Button Mechanism & Head Plate	(1)	
53-2		Lever Assembly, Eject	(1)	
53-3		Lever Assembly, Recording	(1)	
53-4		Lever, Rewind	(1)	
53-5	Not Available, Order QXKK0075R	Lever, Play Back	(1)	
53-6		Lever, Fast Forward	(1)	
53-7		Lever, Stop	(1)	
53-8		Lever, Catch	(1)	
53-9		Lever, Switch ON-OFF	(1)	
53-10		Button, Eject, Rewind, Play, Fast Forward & Stop	(5)	
53-11		Button, Recording	(1)	
53-12	XTC26+8R	Screw, Button Lever Stopper M'tg	1	Z
53-13	XTC26+10R	Screw, Button Lever Stopper M'tg	1	Z
53-14	QMF1637	Stopper, Button Lever	1	Z
53-15	QBT1475M	Spring, Eject Lever	1	Y
53-16	QBT1776	Spring, Rewind Lever	1	Y
53-17	QBT1634T	Spring, Play Lever	1	Y
53-18	QBTK0015M	Spring, Fast Forward Lever	1	Y
53-19	QBT1653	Spring, Stop Lever	1	Y
53-20	QBT1652-1	Spring, Catch Lever	1	Y
53-21	QBJ2208	Cover, Button	1	Z
54	XUC4FK	E Ring, Connection Pulley M'tg	1	Z
55	QBTK0013	Spring, Connection Pulley	1	Y

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
56	QXL0836A	Connection Pulley Assembly	1	Z
57	QXL0666Z	Bracket, Flywheel	1	Z
58(S4)	RSH90Z-H	Leaf Switch	1	X
59	QDBK0009	Belt, DC Motor	1	X
60	QXF0082	Flywheel with Capstan	1	Y
61	QBJ3311	Washer, Flywheel M'tg	1	Z
62	QBC1210	Spring, Flywheel Thrust	1	Y
63	QBJ3310	Washer, Flywheel M'tg	1	Z
64	QXL0659A	Play Back Connection Pulley Assembly	1	Z
65	QBTk0025	Spring, Play Back Connection Pulley	1	Y
66	XSN26+6	Screw, DC Motor M'tg	2	Z
67	XWG26B	Washer, DC Motor M'tg	2	Z
68	QXQ0068	Rubber, DC Motor	2	Z
69	QMAK0035	Bracket, DC Motor	1	Z
70	QBG1210	Rubber, DC Motor	2	Z
71	QDPK0018	Pulley, DC Motor	1	Z
72	XSN2+5	Screw, DC Motor Pulley M'tg	1	Z
73	MHI5R9CXPRB	DC Motor with Governor	1	X
74	QLGK0186	Lead Wire, DC Motor	1	Y
75	ECEA16V100L	Electrolytic Capacitor	1	Y
76	QBJK0101	Eject Lever(Plastic)	1	Z
77	QBT1633	Spring, Eject Lever	1	Y
78	QWQ1157	Shaft, Eject Lever	1	Z
79	Not Available,	Shaft, Tape Deck	(3)	
80	Order	Shaft, Flywheel Support Lever	(2)	
81	RU-3076-2A	Shaft, Connection Pulley	(1)	

■ ACCESSORIES & PACKING MATERIALS

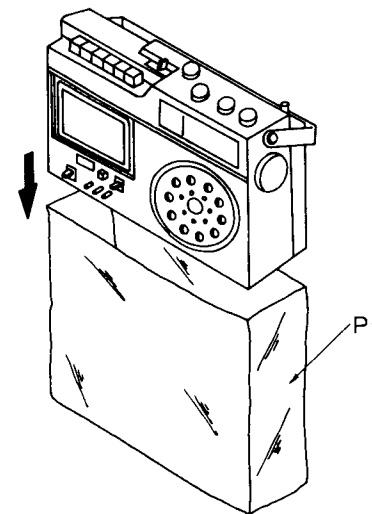


Fig. 16

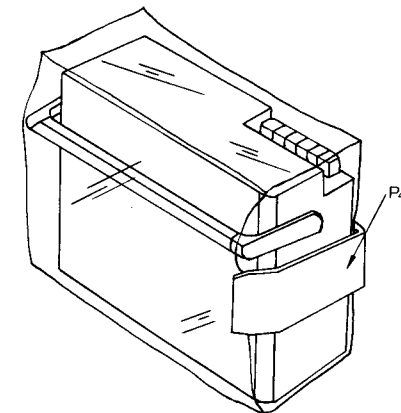


Fig. 17

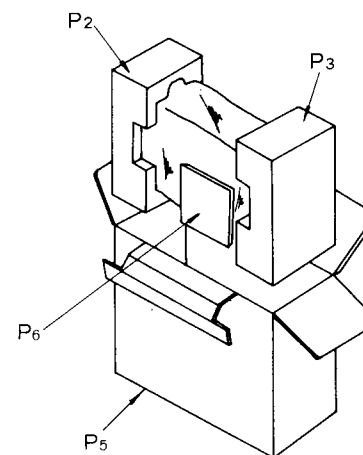


Fig. 18

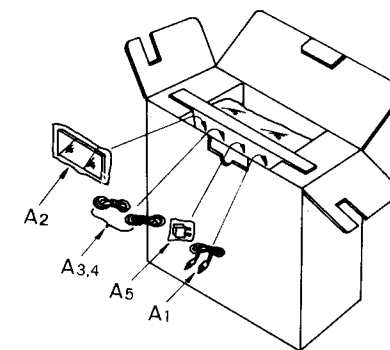


Fig. 19